

PATENT ABSTRACTS OF JAPAN

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(54) BLOOD PURIFYING ADSORBENT

(57)Abstract:

PURPOSE: To enhance adsorbing capacity, adsorbing characteristics and blood compatibility and to eliminate complicated operation such as coating by fixing a ligand having a specific mol.wt. to the surface of a water-insoluble solid through polyalkylene oxide having a specific degree of polymerization or a derivative thereof.

CONSTITUTION: A ligand having a mol.wt. of 5000-1000000 is fixed to the surface of a water-soluble solid such as a synthetic org. high-molecular compound, for example, polystyrene, polymethacrylic acid and a derivative thereof or a copolymer thereof or a natural org. high-molecular compound, for example, cellulose, chitosan or the like using a derivative polyalkylene oxide with a degree of polymerization of 100-500 and/or alkylene oxide such as PEO acid or PEO amine as a hydrophilic spacer. The specific component in blood is removed or collected by said ligand. By this method, a disease causing substance can be sufficiently and selectively removed from personal blood without feeling concern for a side effect.